## **CLAIMS**

- 1. An antibody that recognizes a tumor necrosis factor-related apoptosis-inducing ligand receptor (TRAIL receptor).
  - 2. The antibody of claim 1, which is a minibody.

5

20

25

35

- 3. The antibody of claim 1 or 2, which comprises three or more antigen binding sites.
- 4. The antibody of claim 3, which comprises three antigen binding sites.
- 5. The antibody of claim 4, wherein three scFv units form a trimer.
- 6. The antibody of claim 5, wherein two of the variable regions in the scFv units are linked together *via* a linker with zero to two amino acids.
  - 7. The antibody of claim 6, wherein the linker comprises zero amino acids.
  - 8. The antibody of claim 6, wherein the linker comprises one amino acid.
  - 9. The antibody of claim 3, which comprises four antigen binding sites.
- 10. The antibody of claim 9, wherein a polypeptide comprising four variable regions forms a dimer.
  - 11. The antibody of any one of claims 1 to 10, wherein the TRAIL receptor is TRAIL-R1 or TRAIL-R2.
    - 12. The antibody of any one of claims 1 to 11, which induces apoptosis in a cell.
    - 13. The antibody of claim 12, wherein the cell is a tumor cell.
    - 14. An antibody comprising the amino acid sequence of SEQ ID NO: 2.
    - 15. An antibody comprising the amino acid sequence of SEO ID NO: 4.
    - 16. An antibody comprising the amino acid sequence of SEQ ID NO: 6.
    - 17. An antibody comprising the amino acid sequence of SEQ ID NO: 8.
  - 18. An antibody that comprises three or more antigen binding sites and induces apoptosis in a cell.
    - 19. The antibody of claim 18, which comprises three antigen binding sites.
    - 20. The antibody of claim 18, which comprises four antigen binding sites.
    - 21. The antibody of any one of claims 18 to 20, wherein the cell is a tumor cell.
    - 22. A polynucleotide encoding the antibody of any one of claims 1 to 21.
- 23. A polynucleotide that hybridizes to the polynucleotide of claim 22 under stringent conditions and encodes an antibody with an activity equivalent to that of the antibody of any one of claims 1 to 21.
  - 24. A vector carrying the polynucleotide of claim 22 or 23.
  - 25. A host cell carrying the polynucleotide of claim 22 or 23, or the vector of claim 24.
  - 26. A pharmaceutical composition comprising the antibody of any one of claims 1 to 21.